

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

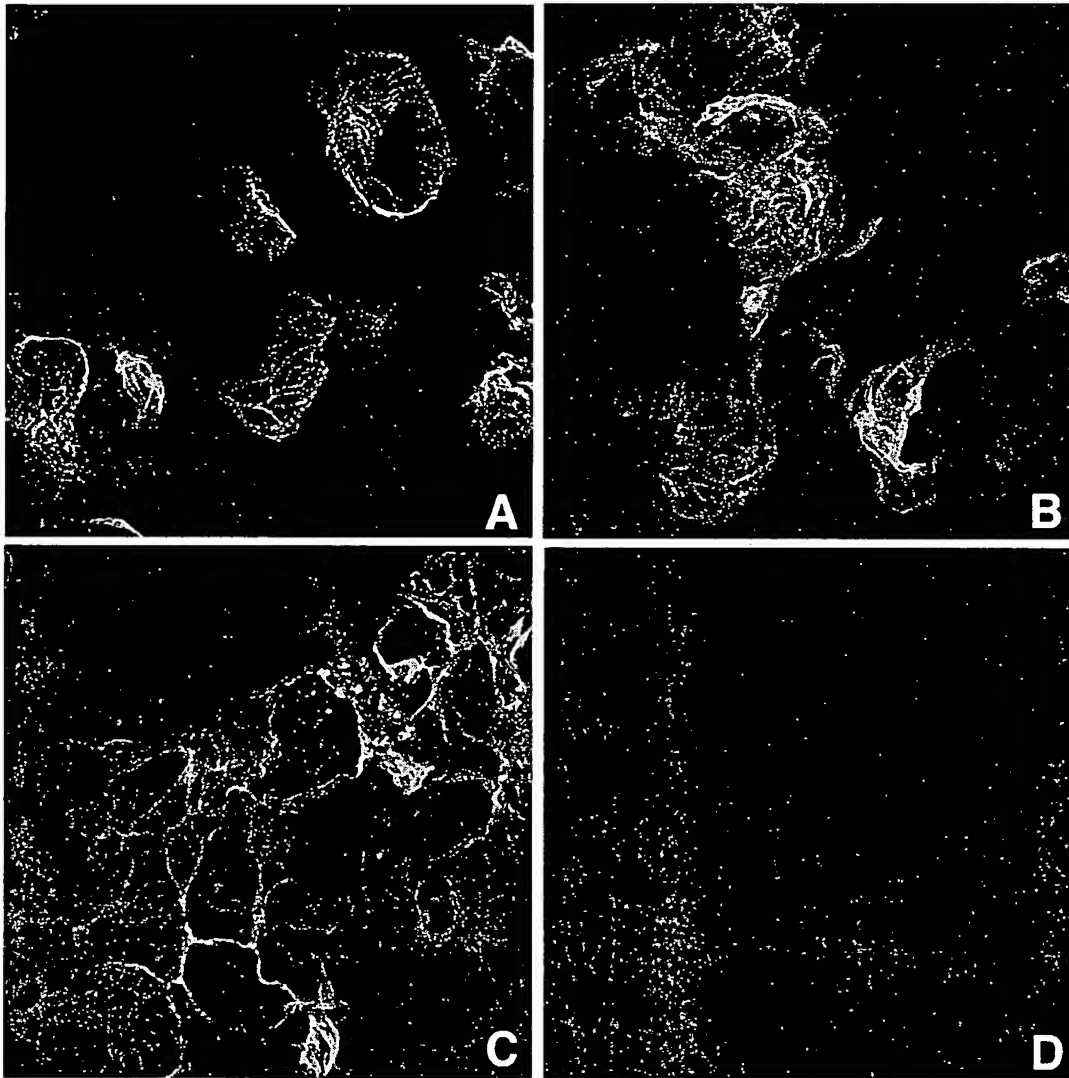


FIG. 1

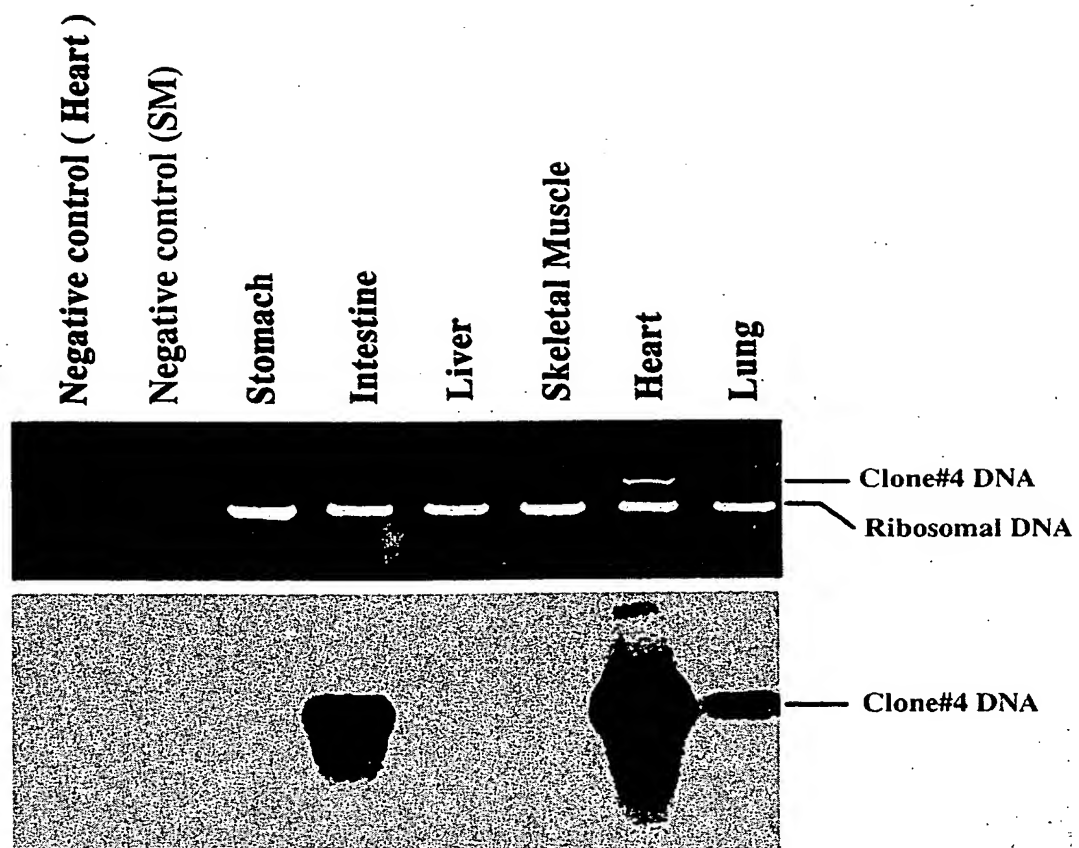


FIG. 2

Normal:	1	agcaccactccatttttggaaacacctcctctaccgtggatgagaggcggagccgatacctt	60
Mutant:	1	agcaccactccatttttggaaacacctcctctaccgtggatgagaggcggagccgatacctt	60
Normal:	61	tggaatttgtacatgtgacctcaagggttgacgcatatccgagcagttgctggattagag	120
Mutant:	61	tggaatttgtacatgtgacctcaagggttgacgcatatccgagcagttgctggattagag	120
Normal:	121	caggcactcccttatcggcctttggaatggagaccagaaagaacact	166
Mutant:	121	caggcactcccttatcggcctttggaatggagaccagaaagaacact	166

FIG. 3

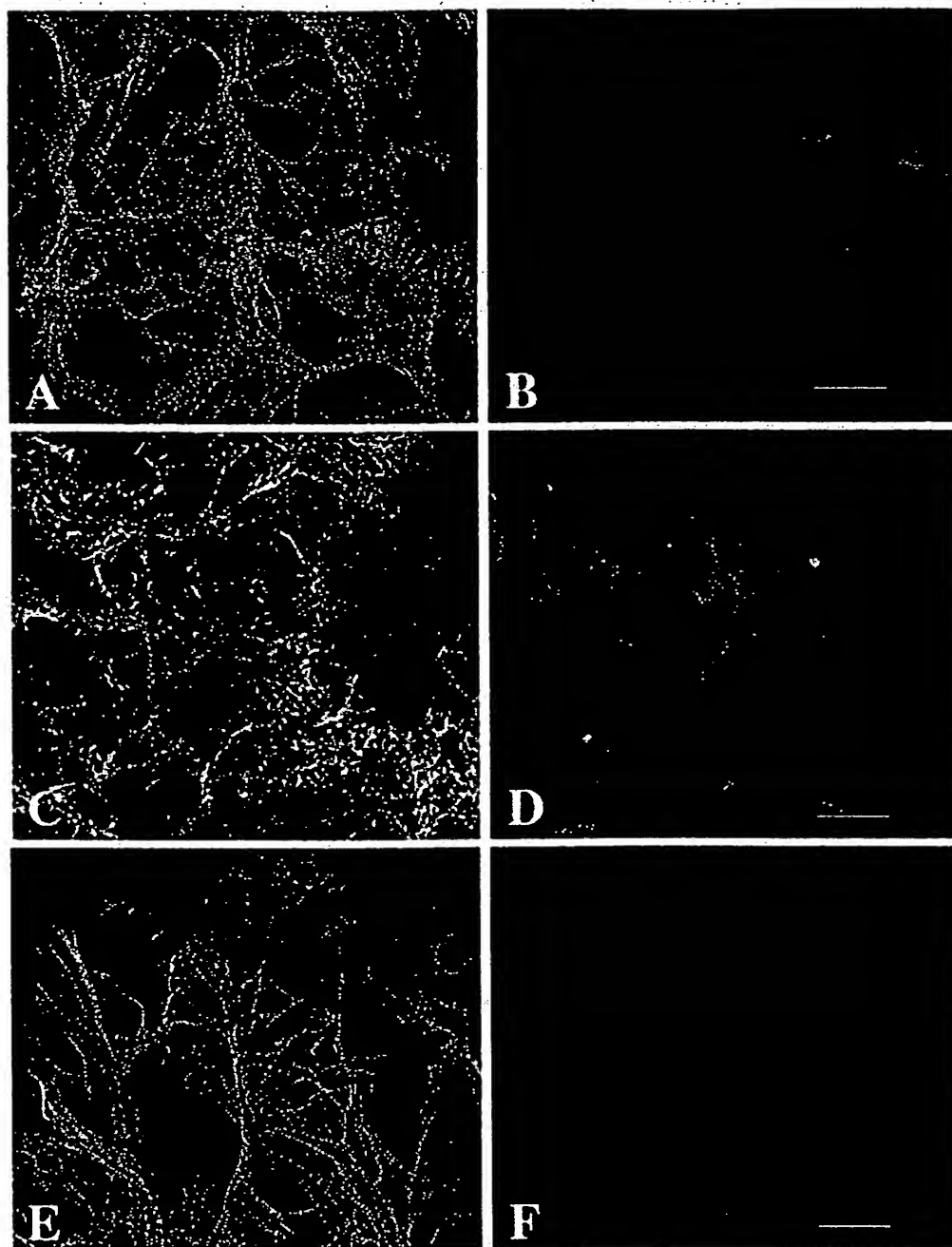


FIG. 4

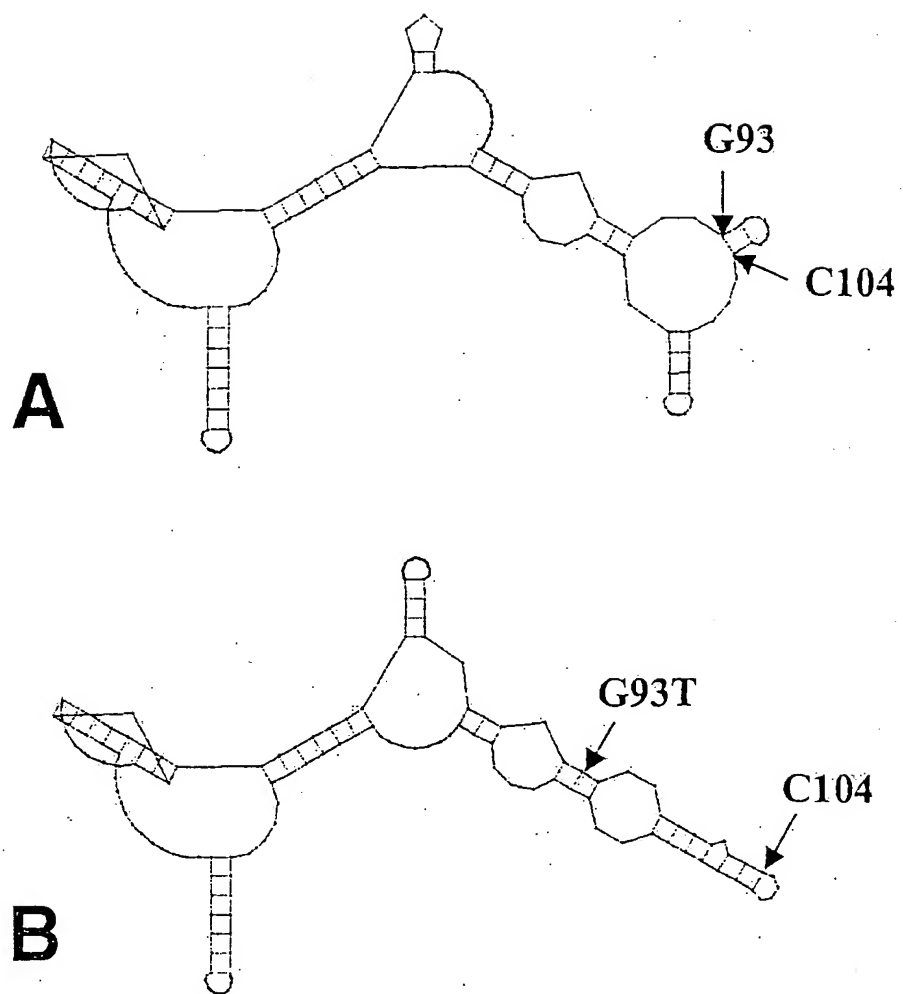
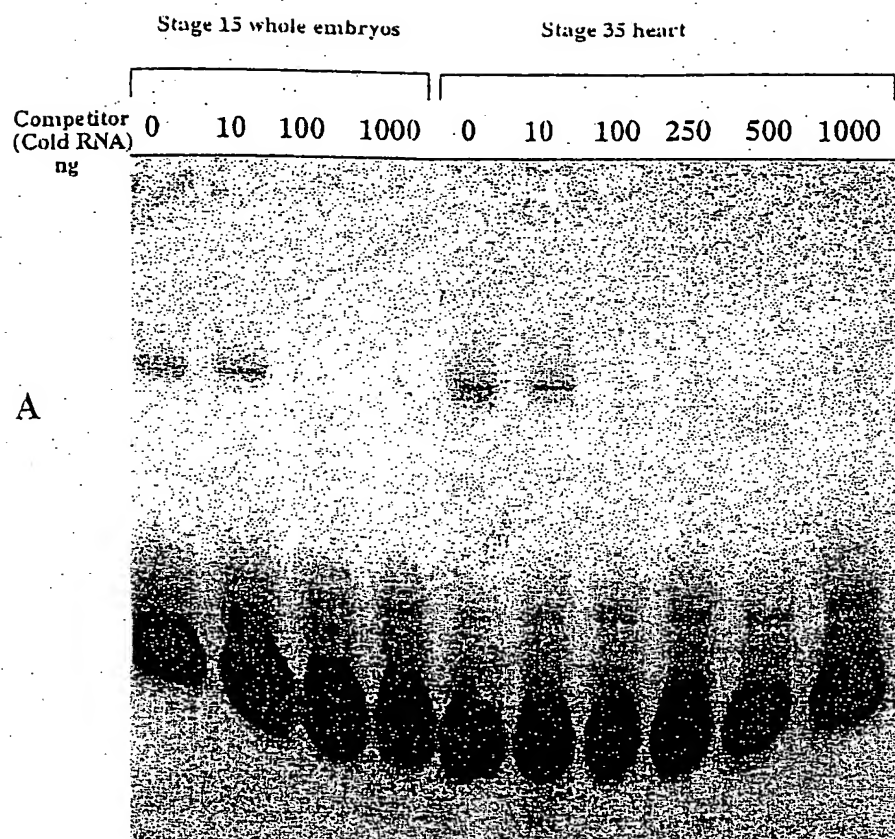


FIG. 5



B

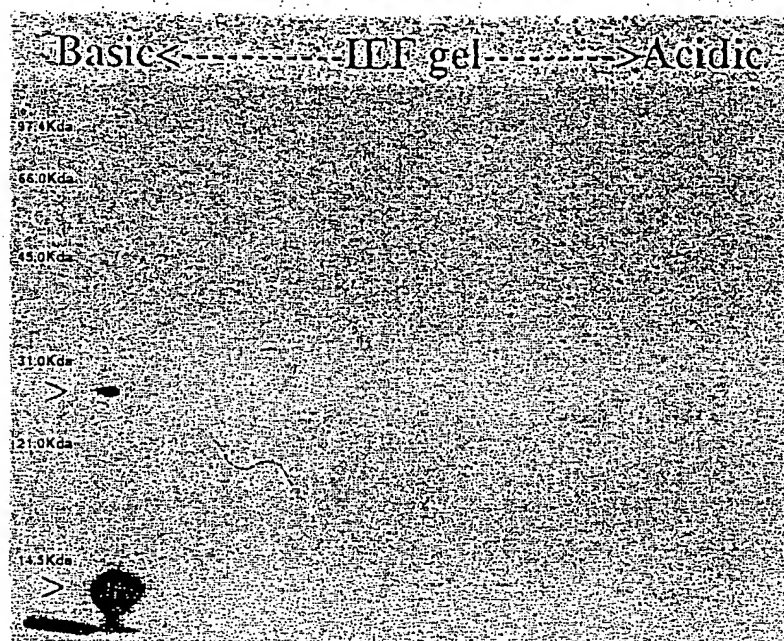


FIG. 6

No.1→ GTTCAAAAATAACATTTTAAT
 TTTGTATCTCCTAATACAGCCATCATAACATATTCTAGGACTGGTATAAC
 TGTATAGACAAACTCCCTTCCTAGGATATTTTGGGAAAGTGCTGGATAGC
 CGGGGAGAACAGCACCTTTCTCTCAGGCAATGTTAAATAGGTGCAATGTT
 TTCACATGTTATGGAATATATCTTCCAACCTGACTGACCAAGAGAAAACAA
 TGAACCACAATAACCGGAACTTCATTCGTTTGACCCTTCCACCCACTCGA
 GCGTCAACATGCCCAGGCCGCTACCCCTTGACACACGTGTAGCACCCTC
 CATTTTTGGAACACCTCCTCTACCGTGATGAGAGGCGGAGCCGATCCTT
TGGAATTTGTACATGTGACCTCAAGGTTGCACGCATATCCGAGCAGTTGC
TGGATTAGAGCAGGCACTCCCTTATCGGCTTTGGAATGGAGACCAGAAAG
AACAATGTGGGACAGCTGATATGGAGGGCAGGGCGGGGAAGTGAGAGAAA

* (+Poly A)

GGGCAACAATAGAGGGCAGATAAAGGGGGGAGGGCAAGGAAATAAACAGGA
 ACTGCAGTGGGAGAAAACGTCTGAACGAGAAA/AAAAAAAAAAAAAAAAAAAAA←

No. 620

FIG. 7

A

AxoSmN Full-length cDNA Sequence

```
AGCCGATCCTTTGGAATTTGTACATGTGACCTCAAGGTTGCACGCATATC
CGAGCAGTTGCTGGATTAGAGCAGGCACTCCCTTGCTCCAACACGTTGAC 100
TTTAGGATGCGCTGTATCCTGCAAGATGGCGGCATCTTTATTGGTACTTT
CAAAGCTTTTCGATAAACACATGAATCTGATTCTCTGTGACTGCCAGGAGT 200
TCAGGAAGATAAAACCTAAGAATTCTAAACAGCCAGAGCGTGAAGAGAAG
AGGGTCCTTGGGCTGGTACTACTCCGTGGCGAAAACCTTGTATCTATGAC 300
CGTGGAAGGACCACCCCCAAAAGATACTGGTATTGCCCCGTGTCCCACTGG
CAGGAGCTGCAGGAGGACCTGGTGTGGGAAGGGCTGCAGGGACAGGAGTG 400
CCAGCAGGTGTACCAATACCGCAAGCACAGCGGGCTTGGCAGGCCCCAGT
GCCAGGTGTTGGTGGCCCATCCAGCAGGTGATGACACCACAGGGACCGTG 500
GAAATCCATCTGGTGTAGCATTGGCAGGAGCACCAACCCAGTACCAGCCT
GGTGGGAGAGGTGGCCCCGATGCTGCCAATGGGCTGTGGTGGACCTCCAGG 600
CATGATGGGACCACCCCCGGGCATGAGGCCACCTATGGGCCCCACCTATGG
GAATGCCCCCAGGCCGAGGTGGTTCAATGGGCATGGCTCCAGCTGGTATG 700
CGACCTCCACCACCTGGTATGAGAGGCGACCGATTCTAGAAACAAAGGTT
CACCTCGTGGGAAGCGTTCCTCAAGACCATAAATCGATTACTTGTGTTGTG 800
GATTGAAAGTTGATGGATGTGTTGAGTGGATGCCAGTGCACTTACTGGC
AGTTGGAAGCCCTTGATAGTAGCTACTTTTACTTTTACAGGAGATCTGGCTG 900
AAGCTGTTTCATTTTTCTTATTTACATGTAAATGTTTTTAAATAAACTTCTA
AAATGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

B

AxoSmN Amino Acid Sequence:

```
MRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQPEREEKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGVGRAAGRGVPAGVPI PQAPAGLAGPVRGV
GGPSQQVMTPQGRGNPSGAS IAGAPTQYQPGRRGPM LPMGCGPPGMMGPPPGMRPPM
GPPMGMPGRGGSMGMPPPGMRPPPGMRGDRF
```

FIG. 8